

ABSTRACT OF THE DISCLOSURE

A heat-assisted magnetic recording head includes a thin film magnetic transducer having a pair of yokes and generating a magnetic field in a magnetic gap between two magnetic poles at the ends of the pair of yokes, and a heater placed in the vicinity of the magnetic gap and generating heat with an electric current. A part of a magnetic recording medium in the vicinity of the magnetic gap is heated by the heater to reduce a magnetic-coercive of the part of the magnetic recording medium and the magnetic field generated by the thin film magnetic transducer is applied to the part of the magnetic recording medium.